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1. CHEMICAL PRODUCT AND COMPANY INFORMATION REVISION DATE: 05/30/1997 UN NUMBER- N/A PRIMARY APPLICATION- UNIVERSAL TRACTOR HYDRAULIC FLUID MANUFACTURER- KENDALL REFINING COMPANY A DIVISION OF SUN COMPANY, INC. TEN PENN CENTER, 1801 MARKET ST. PHILADELPHIA PA 19103-1699 SYNONYMS....: HYDRAULIC FLUID
CAS REGISTRY NO: SEE SEC. 2
CAS NAME....: NO CLASSIFICATION - BLENDED PRODUCT CHEMICAL FAMILY: MIXTURE INFORMATION SUPPLIER... MARIA DAYRIT PHONE....: (610) 859-1120 EMERGENCY PHONE NUMBERS (AFTER NORMAL BUSINESS HOURS) SUN CO.. 1-800-964-8861 CHEMTREC. 1-800-424-9300 2. COMPOSITION / INFORMATION ON INGREDIENTS EXPOSURE GUIDELINES ACGIH OSHA SUN/MFR COMPONENT/CAS NO. L0% HI% TWA STEL TWA STEL TWA STEL UNIT LIMITS FOR THE PRODUCT: NO SPECIFIC LIMIT SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL 64741-88-4 80.00 95.00 5
POLYMER OF STYRENE & MALEIC C4-C20 DIALKYL ESTERS MG/M3 68910-21-4 .00 5.00 NO SPECIFIC LIMIT CALCIUM SULFONATE 61789-86-4 .00 5.00 NO SPECIFIC LIMIT ZINC DIALKYL DITHIOPHOSPHATE 1.50 1.50 63549-42-3 NO SPECIFIC LIMIT TOLUENE 108-88-3 .00 1.00 100 150 50 PPM 2-ETHYLHEXANOL .00 104-76-7 1.00 NO SPECIFIC LIMIT ETHYLENE/PROPYLENE COPOLYMER 9010-79-1 .00 15.00 NO SPECIFIC LIMIT ACRYLIC COPOLYMERS 63197-48-8 .00 1.00 NO SPECIFIC LIMIT ADDITIONAL EXPOSURE LIMITS ------ GOVERNMENT REGULATION OTHER LIMIT- OIL MIST: 5 MG/M3 (OSHA PEL/ACGIH TLV) 3. HAZARDS IDENTIFICATION EMERGENCY OVERVIEW -----SEE SECTION 16 FOR MORE INFORMATION. APPEARANCE-- AMBER FLUID ODOR-- SLIGHT ODOR. POTENTIAL HEALTH EFFECTS -----PRIMARY ROUTES OF ENTRY- INHALATION() SKIN(X) EYE() INGESTION()

INHALATION -----

NO ACUTE EFFECTS EXPECTED.

SKIN .

MAY CAUSE MILD IRRITATION WITH PROLONGED OR REPEATED CONTACT. ESTIMATED DRAIZE SKIN IRRITATION SCORE IS: 1.25 OUT OF 8.0.

CONTACT WITH THE EYE MAY CAUSE MINIMAL IRRITATION. INGESTION

SLIGHTLY TOXIC (LD50 5 TO 15 G/KG). ESTIMATED ORAL LD50 IN RATS IS: > 10 G/KG.

CARCINOGEN LISTED BY-IARC(NO) NTP(NO) OSHA(NO) ACGIH(NO) OTHER(NO)

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-SKIN DISORDERS

4. FIRST AID MEASURES

INHALATION -----

MOVE PERSON TO FRESH AIR.

WASH WITH SOAP AND WATER UNTIL NO ODOR REMAINS. IF REDNESS OR SWELLING DEVELOPS, OBTAIN MEDICAL ASSISTANCE. WASH CLOTHING BEFORE REUSE.

FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, OBTAIN MEDICAL ASSISTANCE.

INGESTION -----

GIVE LIQUIDS AND INDUCE VOMITING UNLESS VICTIM IS UNCONSCIOUS. OBTAIN EMERGENCY MEDICAL ATTENTION. SMALL AMOUNTS WHICH ACCIDENTALLY ENTER MOUTH SHOULD BE RINSED OUT UNTIL TASTE OF IT IS GONE.

J. FIRE FIGHTING MEASURES

FLASH POINT: 390 COC MINIMUM (DEG. F); 200 COC MINIMUM (DEG. C) AUTOIGNITION TEMP.: 700 ESTIMATED (DEG. F); 371 ESTIMATED (DEG. C)

---FLAMMABLE LIMITS IN AIR--LOWER EXPLOSIVE LIMIT (LEL):
UPPER EXPLOSIVE LIMIT (UEL): NOT DETERMINED % VOLUME NOT DETERMINED % VOLUME

FIRE AND EXPLOSION HAZARDS -----CAN BE MADE TO BURN (FLASH POINT GREATER THAN 200F).

EXTINGUISHING-MEDIA -----WATER SPRAY. REGULAR FOAM. DRY CHEMICAL. CARBON DIOXIDE.

SPECIAL FIRE FIGHTING INSTRUCTIONS -----WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR STRUCTURAL FIREFIGHTERS PROTECTIVE CLOTHING.

NFPA/HMIS CLASSIFICATION

HEALTH - 0 / 0 FIRE - 1 / 1

REACTIVITY - 0 / 0

PERSONAL PROTECTION INDEX - X

SPECIFIC HAZARD: NONE KNOWN

HAZARD RATING 0=LEAST 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

ACCIDENTAL RELEASE MEASURES

CONTAIN SPILL. USE PERSONAL PROTECTIVE EQUIPMENT STATED IN SECTION 8. ADVISE EPA; STATE AGENCY IF REQUIRED. ABSORB ON INERT MATERIAL. SHOVEL, SWEEP OR VACUUM SPILL.

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7. HANDLING AND STORAGE
      NFPA CLASS IIIB STORAGE. WASH THOROUGHLY AFTER HANDLING.
8. EXPOSURE CONTROL / PERSONAL PROTECTION
  CONSULT WITH A HEALTH/SAFETY PROFESSIONAL FOR SPECIFIC SELECTION.
   VENTILATION -----
      NONE HORMALLY NEEDED.
   PERSONAL PROTECTIVE EQUIPMENT -----
      PRODUCT MINIMALLY IRRITATING TO EYES. LOCAL SAFETY POLICY DECISION.
   GLOVES ----
      PROTECTIVE GLOVES RECOMMENDED WHEN PROLONGED SKIN CONTACT CANNOT BE
      AVCIDED. THE FOLLOWING GLOVE MATERIALS ARE ACCEPTABLE: POLYVINYL
      CHLORIDE (PVC); NEOPRENE; HITRILE; POLYVINYL ALCOHOL; VITON;
   RESPIRATOR -
      CONCENTRATION-IN-AIR DETERMINES PROTECTION NEEDED. USE ONLY NIOSH
      CERTIFIED RESPIRATORY PROTECTION. RESPIRATORY PROTECTION USUALLY NOT NEEDED UNLESS PRODUCT IS HEATED OR MISTED. HALF-MASK AIR PURIFYING
      RESPIRATOR WITH DUST/MIST FILTERS OR HEPA FILTER CARTRIDGES IS
      ACCEPTABLE TO 10 TIMES THE EXPOSURE LIMIT. FULL-FACE AIR PURIFYING
      RESPIRATOR WITH DUST/MIST FILTERS OR HEPA FILTER CARTRIDGES IS
      ACCEPTABLE TO 50 TIMES THE EXPOSURE LIMIT. PROTECTION BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE-DEMAND FULL-FACE
      SUPPLIED AIR RESPIRATOR OR SCBA FOR EXPOSURES ABOVE 50X THE EXPOSURE
      LIMIT.
   OTHER -
      IF CONTACT IS UNAVOIDABLE, WEAR CHEMICAL RESISTANT CLOTHING.
      FOLLOWING MATERIALS ARE ACCEPTABLE AS PROTECTIVE CLOTHING MATERIALS:
      POLYVINYL ALCOHOL(PVA); POLYVINYL CHLORIDE(PVC); NEOPRENE; NITRILE; VITCH; POLYURETHANE; LAUNDER SOILED CLOTHES. FOR NON-FIRE EMERGENCIES
      RESPIRATORY PROTECTION MAY BE NECESSARY AND WEAR APPROPRIATE PROTECTIVE
      CLOTHING TO AVOID CONTACT.
9. PHYSICAL AND CHEMICAL PROPERTIES
  BOILING POINT....: HIGH WITH (DEG. F)
MELTING POINT....: N/A (DEG. F)
SPECIFIC GRAVITY...: 0.87 (WATER=1)
                                                  WIDE RANGE (DEG. C)
                                        ____ N/A (DEG. C)
   PACKING DENSITY....: N/A (KG/M3)
   VAPOR PRESSURE.....: <0.0001 (MM HG a 20 DEG C)
VAPOR DENSITY.....: 10+ (AIR=1)
SOLUBILITY IN WATER.: NIL (% BY VOLUME)
   PH INFORMATION.....: N/A AT CONC. N/A G/L H20
   % VOLATILES BY VOL..: HIL
   EVAPORATION RATE...
                     ..: 1000X SLOWER (ETHYL ETHER=1)
   OCTANOL/WATER COEFF.: N.D.
   APPEARANCE..... AMBER FLUID
   ODOR..
             ....: SLIGHT ODOR.
   ODOR THRESHOLD.....: N.D. (PPM)
   VISCOSITY..... 58.3 SUS & 210 DEG F ... 58.9 CST & 40 DEG C
   MOLECULAR WEIGHT....: N/A (G/MOLE)
10. STABILITY AND REACTIVITY
  STABILITY -----
      STABLE.
   INCOMPATIBLE MATERIALS ------
STRONG OXIDIZERS
   HAZARDOUS DECOMPOSITION -----
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PRODUCT CODE: R00000453997

COMBUSTION MAY PRODUCE CARBON MONOXIDE AND OTHER ASPHYXIANTS POLYMERIZATION -----WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION

FOR THE PRODUCT -----ACUTE TOXICITY

ESTIMATED DRAIZE SKIN IRRITATION SCORE IS: 1.25 OUT OF 8.0. ESTIMATED ORAL LD50 IN RATS IS: > 10 G/KG.

INHALATION: LOW ACUTE TOXICITY. SKIN: MILD IRRITATION WITH PROLONGED OR REPEATED CONTACT. CALCIUM SULFONATE COMPONENT CAUSED ALLERGIC REACTION IN ANIMAL STUDIES; NO EVIDENCE IN HUMANS. EYE: MINIMALLY IRRITATING ON CONTACT. ORAL: PRACTICALLY NON-TOXIC.

- SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL (COMPONENT)
 INHALATION: LOW ACUTE TOXICITY. SKIN: PRACTICALLY NON-TOXIC BY
 ABSORPTION. MAY CAUSE MODERATE IRRITATION WITH PROLONGED AND REPEATED CONTACT. EYE: MINIMALLY IRRITATING ON CONTACT. INGESTION: PRACTICALLY NON-TOXIC IF SWALLOWED.
- POLYMER OF STYRENE & MALEIC C4-C20 DIALKYL ESTERS (COMPONENT) INHALATION: NO ACUTE EFFECTS EXPECTED. SKIN: PRACTICALLY NON-TOXI ABSORBED; NO EFFECTS EXPECTED WITH PROLONGED AND REPEATED CONTACT. SKIN: PRACTICALLY NON-TOXIC IF EYES: MINIMAL IRRITATION. ORAL: SLIGHTLY TOXIC.
- CALCIUM SULFONATE (COMPONENT) INHALATION: NO DATA AVAILABLE. SKIN: MODERATE IRRITANT. CAUSED ALLERGIC SKIN REACTION IN ANIMALS. EYE: MODERATE TO SEVERE IRRITATION. INGESTION: NO DATA AVAILABLE.
- ZINC DIALKYL DITHIOPHOSPHATE (COMPONENT) INHALATION: DECOMPOSITION MAY OCCUR AT TEMPERATURES IN EXCESS OF 200F RESULTING IN EVOLUTION OF TOXIC HYDROGEN SULFIDE GAS. H2S MAY CAUSE CENTRAL NERVOUS SYSTEM (BRAIN) EFFECTS, NAUSEA, DIZZINESS, CONFUSION, LOSS OF SENSE OF SMELL, MUSCLE CRAMPS, INCOORDINATION, UNCONSCIOUSNESS COMA, RESPIRATORY FAILURE AND DEATH. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE MODERATE IRRITATION, REDNESS, DRYING, CRACKING, DERMATITIS. EYE: IRRITANT. ORAL: HARMFUL IF SWALLOWED.
- TOLUENE (COMPONENT) INH: VAPOR HARMFUL! OVEREXPOSURE TO HIGH CONCENTRATIONS: EYE, NOSE, THROAT, LUNG IRRITATION; CNS (BRAIN) EFFECTS, DIZZINESS, DIFFICULTY IN BREATHING, COMA, DEATH. REPORTS OF HEART BEAT IRREGULARITIES FROM MASSIVE EXPOSURE. PROLONGED OVEREXPOSURE CAN CAUSE BRAIN, LIVER, KIDNEY EFFECTS/DAMAGE. SKIN: CAN BE ABSORBED. PROLONGED CONTACT IS IRRITATING. EYE: IRRITATION. ORAL: HARMFUL OR FATAL IF SWALLOWED. PULMONARY ASPIRATION HAZARD-CAN ENTER LUNG & CAUSE DAMAGE. PREG: MAY CAUSE MENTAL AND/OR GROWTH RETARDATION IN CHILDREN OF FEMALE SOLVENT ABUSERS (SNIFFERS); IN RATS PROLONGED BREATHING WAS TOXIC TO FETUSES & MOTHERS - 1500 PPM; NO BIRTH DEFECTS - 5000 PPM. NO EFFECTS - 750 PPM.
- 2-ETHYLHEXANOL (COMPONENT) INHALATION: OVEREXPOSURE MAY CAUSE EYE, NOSE, THROAT IRRITATION, NASAL DISCOMFORT & DISCHARGE, CHEST PAIN, COUGH, HEADACHE, NAUSEA, VOMITING. SKIN: IRRITATING. PROLONGED/REPEATED CONTACT MAY CAUSE REDNESS AND SWELLING. PROLONGED WIDESPREAD ABSORPTION CAUSED CHS DEPRESSION, STUPOR, & UNCONSCIOUSNESS IN ANIMALS. EYE: SEVERE IRRITANT. MAY CAUSE CORNEAL INJURY. ORAL: MODERATELY TOXIC. MAY CAUSE ABDOMINAL DISCOMFORT MAUSEA, VOMITING, DIARRHEA, UNCONSCIOUSNESS, OTHER CNS EFFECTS, LIVER & KIDNEY INJURY (REPEATED INGESTION). PREGNANT RATS: SKIN CONTACT UP TO 3ML/KG - MATERNAL TOXICITY BUT NO BIRTH DEFECTS; ORAL DOSE 2ML/KG-EMBRYOFETAL TOXICITY & POSSIBLY INCREASED BIRTH DEFECTS.
- ETHYLENE/PROPYLENE COPOLYMER (COMPONENT) NO DATA AVAILABLE FOR ALL ROUTES OF EXPOSURE.

ACRYLIC COPOLYMERS (COMPONENT) NO DATA AVAILABLE FOR ALL ROUTES OF EXPOSURE.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY -----

NO DATA AVAILABLE.

13. DISPOSAL CONSIDERATIONS

FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS. NOT A RCRA HAZARDOUS WASTE IF UNCONTAMINATED. IF "USED", RCRA CRITERIA (IGNITABILITY, REACTIVITY, CORROSIVITY, TOXICITY CHARACTERISTICS) MUST BE DETERMINED. DO NOT FLUSH TO DRAIN/ STORM SEWER. CONTRACT TO AUTHORIZED DISPOSAL SERVICE.

14. TRANSPORTATION INFORMATION

DOT-PROPER SHIPPING NAME- PETROLEUM HYDRAULIC OIL HAZARD CLASS- NOT REGULATED IDENTIFICATION NUMBER- NOT REGULATED LABEL REQUIRED- NOT REGULATED

IMDG- PROPER SHIPPING NAME- NO DATA AVAILABLE

IATA- PROPER SHIPPING NAME- NO DATA AVAILABLE

5. REGULATORY INFORMATION

SARA 302 THRESHOLD PLANNING QUANTITY. N/A

SARA 304 REPORTABLE QUANTITY 99999 POUNDS

SARA 311 CATEGORIES- IMMEDIATE (ACUTE) HEALTH EFFECTS.. N DELAYED (CHRONIC) HEALTH EFFECTS.. N FIRE HAZARD

SUDDEN RELEASE OF PRESSURE HAZARD. N REACTIVITY HAZARD

WHEN A PRODUCT AND/OR COMPONENT IS LISTED BELOW, THE REGULATORY LIST ON WHICH IT APPEARS IS INDICATED.

ZINC DIALKYL DITHIOPHOSPHATE - NJ 01 TOLUENE - CA FL MA MN NJ PA 01 07 2-ETHYLHEXANOL - MA PA

01=SARA 313 04=0SHA CARCINOGEN 07=CERCLA 302.4 10=OTHER CARCINOGEN PA=PENNSYLVANIA RTK MA=MASSACHUSETTS RTK FL=FLORIDA

HY=HEW YORK

LA=LOUISIANA

NJ=NEW JERSEY RTK MI=MICHIGAN 406 RI=RHODE ISLAND WV=WEST VIRGINIA ME=MAINE

05=ACGIH CARCINOGEN

02=SARA 302/304

03=IARC CARCINOGEN 06=NTP CARCINOGEN 08=WHMIS CONTROLLED PROD.

> CA=CALIFORNIA PROP 65 MN=MINNESOTA RTK IL=ILLINOIS CT=CONNECTICUT OH=OHIO

THIS PRODUCT OR ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S. TSCA INVENTORY.

PRODUCT CODE: R00000453997

16. OTHER INFORMATION

WARNING! HIGH PRESSURE INJECTION OF OIL THROUGH THE SKIN IS A MEDICAL EMERGENCY. THERE MAY BE NO SIGN OF INJURY AND NO INITIAL PAIN. THIS OIL MUST BE REMOVED COMPLETELY BY A PHYSICIAN. FAILURE TO OBTAIN IMMEDIATE TREATMENT HAS RESULTED IN LOSS OF A FINGER, HAND, OR ARM. WHMIS CLASSIFICATION: NOT CONTROLLED